

Morbidity and Mortality

Weekly
Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the

COMMUNICABLE DISEASE CENTER

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PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON
DEATHS IN SELECTED CITIES FOR WEEK ENDED JUNE 26, 1964

PARALYTIC POLIOMYELITIS

A single case of paralytic poliomyelitis was reported this week as compared with 9 cases for the same week in 1963. This brings to 29 the total number of paralytic cases reported in 1964; 68 were reported for the same period in 1963. The total reported to date this year is precisely one-fifth the median total of 145 paralytic cases reported for the first 25 weeks during the years 1959-1963.

Only 18 States have reported cases of paralytic poliomyelitis in 1964, and no State has reported more than 4 cases. Florida and North Carolina each have reported 4 paralytic cases and the rest have reported 3 or less. Paralytic poliomyelitis cases recorded in the country in 1964 for the most part have been scattered with little indication of temporal or geographic aggregation.

Poliomyelitis (Cumulated Weekly) through 25th Week for Five Years

	1964	1963	1962	1961	1960
Paralytic	29	68	144	144	312
Total	38	77	186	217	428

Annual Totals

Paralytic	379*	762	988	2525
Total	443*	910	1312	3190

*Preliminary figures

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	25th Week Ended		Median 1959 - 1963	Cumulative, First 25 Weeks		
	June 20, 1964	June 22, 1963		1964	1963	Median 1959 - 1963
Aseptic meningitis	32	25	---	724	595	---
Brucellosis	8	5	12	186	163	267
Diphtheria	2	4	6	136	133	304
Encephalitis, primary infectious ..	26	42	---	881	739	---
Encephalitis, post-infectious	16		---	481		---
Hepatitis, infectious including serum hepatitis	576	672	673	20,839	23,015	23,017
Measles	11,827	8,801	9,541	407,002	328,026	351,439
Meningococcal infections	49	49	41	1,456	1,412	1,298
Poliomyelitis, Total	2	9	14	38	77	217
Paralytic	1	9	9	29	68	145
Nonparalytic	1	-	---	8	3	---
Unspecified	-	-	---	1	6	---
Streptococcal Sore Throat and Scarlet fever	5,498	4,401	---	246,024	210,642	---
Tetanus	7	9	---	116	107	---
Tularemia	6	12	---	135	114	---
Typhoid fever	11	10	25	174	172	277
Rabies in Animals	90	100	78	2,306	1,971	1,969

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Psittacosis:	14
Botulism: ND - 1	10	Rabies in Man:	-
Leptospirosis: Hawaii - 3	15	Smallpox:	-
Malaria: NY Upstate - 1	43	Typhus-	-
Plague:	-	Murine: Ala - 1	8
		Rky Mt. Spotted: Wyo-2, Colo-2, Tenn-1, Okla-1, Va-3,	51

NJ-2, Ill-1, Md-1, Pa-1, NC-1

EPIDEMIOLOGICAL REPORT

CHICKENPOX— Minnesota— A Family Outbreak

An outbreak of chickenpox affected all 5 children of a Minnesota family during April; 2 of the children died. Neither parent experienced the illness. The chronology of the outbreak appears in the accompanying figure.

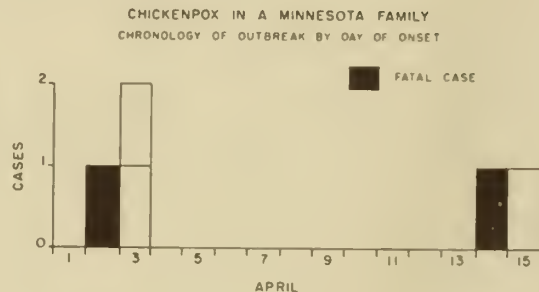
The first child to develop the illness was a 9-year-old boy, who on April 2 had onset of malaise and vesicular rash with a temperature of 100°F. (see Table 1). The next day the rash spread over his body, his temperature rose to 104°F., and he became disoriented; in addition, he developed a cough productive of frothy sputum. Despite treatment with a broad spectrum antibiotic, aspirin and antihistamine therapy, his condition deteriorated and early on April 5 he developed heavy, rapid breathing and diarrhea. At 4:30 in the afternoon, the patient died despite attempts at mouth to mouth resuscitation; bloody mucus was observed in the throat and mouth. No post-mortem examination was performed.

TABLE 1— CASE SUMMARY
FAMILY OUTBREAK OF CHICKENPOX

Patient	Age	Sex	Date of Onset Chickenpox	Outcome	Onset of Rubella
A	9	M	April 2	Died April 5	February 19
B	8	M	April 3	Recovered	March 5
C	10	F	April 3	Recovered	March 5
D	6	F	April 14	Died April 17	March 8
E	2	M	April 15	Recovered	----

The second and third cases involved an 8-year-old brother and a 10-year-old sister of the first patient, both of whom had onset one day following the onset of illness in the first case. At the onset of his illness, Patient B experienced a low-grade fever and vesicular rash, first noted on the trunk; the following day the rash spread over his body. He was treated with a broad spectrum antibiotic and antihistamine therapy but, on April 6, he vomited and developed a loose, hacking cough and labored breathing; his temperature rose to 104°F. He was admitted to a local hospital, treated with another antibiotic and oxygen. He subsequently complained of transient abdominal pain, headache and respiratory difficulty but, by April 9, had improved considerably and became afebrile. He was discharged from the hospital on April 12. Patient C experienced a typical benign course of chickenpox. The exact source of these infections is not known, but chickenpox was prevalent in the community.

Patient D had onset of illness on April 14, essentially 2 weeks after onset of illness in the first 3 siblings. Her illness began with a vesicle on the palm of the right hand and later in the same day lesions developed over her trunk. She was treated with oral penicillin. The following evening she developed photophobia and conjunctivitis; her temperature rose to 103°F, she became



increasingly restless and developed respiratory difficulty. A broad spectrum antibiotic, an antihistamine, and aspirin were added to the therapeutic regimen, and she was admitted to hospital with a temperature of 103.8°F; she resisted oxygen therapy. During the subsequent day, the rash spread to cover her body. On the morning of April 17, she vomited some mucoid material, developed a cough, and by noon was disoriented and weak to the point where she could not drink; she experienced 2 grand mal seizures and died at 3:00 p.m. Post-mortem examination was performed with findings consistent with chickenpox and pneumonia.

Patient E, the one remaining unaffected child, became ill on April 15 with the appearance of rash and a temperature of 101°F. Two days later, following the death of his sister, the patient was admitted to hospital for precautionary reasons. The rash was noted to be present on the face and scalp, but most abundant on the trunk; a few lesions were present on the extremities. The lesions were described as erythematous vesicles, 2-4 mms. in diameter, in varying stages of development. A chest X-ray did not reveal any abnormality. The patient pursued an uncomplicated course and was discharged from hospital on April 24.

Bacteriologic and virologic studies of pleural fluid, lung tissue, and blood obtained at the post-mortem examination of Patient B, and blood cultures obtained from Patient E failed to isolate the etiologic agent.

It is of interest that 4 of the 5 children, including the 2 fatalities, had experienced illnesses clinically typical of rubella in February and March, in each instance 4 to 6 weeks prior to onset of chickenpox. In addition, all the children were known to have had mild, intermittent eczema of sufficient degree that none had been vaccinated against smallpox. The influence, if any, of these factors on the severity of chickenpox infections in the children is not known. Immunologic studies of the 3 surviving children and the parents are in progress to assess the possibility of a familial immunologic abnormality.

(Reported by D. S. Fleming, M.D., Director, Division of Disease Prevention and Control, Minnesota Department of Health.)

REPORTED CASES OF POST-INFECTIOUS ENCEPHALITIS FOR MAY
4 WEEKS ENDING MAY 30, 1964

REPORTING AREA	REPORTED PRIMARY INFECTION								
	Mumps	Chickenpox	Measles	Rubella	Influenza	Herpes Simplex	Respiratory Syncytial	Vaccinia	Pertussis
NEW ENGLAND		1		1			1		
Connecticut									
MIDDLE ATLANTIC	1		1	1					
New York Up-State			6						
Pennsylvania									
EAST NORTH CENTRAL	11		4						
Illinois	3		1						
Michigan									
SOUTH ATLANTIC	7		2						
Virginia									
EAST SOUTH CENTRAL			2						
Tennessee									
WEST SOUTH CENTRAL	1		2						
Arkansas									
Texas									
MOUNTAIN	1								
Utah									
PACIFIC	3		1	1					
Washington	4		4		2			1	
Oregon	29	4	23			1			
California									
U. S. TOTAL	60	5	46	3	2	1	1	1	
U. S. CUMULATIVE TOTAL through 5/30	231	30	120	13	5	2	1	1	1

(States not reporting a case not listed)

POST-INFECTIOUS ENCEPHALITIS - MAY

A total of 119 cases of post-infectious encephalitis was reported for the four-week period ended May 30 (see table above). This brings to 404 the cumulative total of post-infectious encephalitis cases reported through the first five months of 1964.

The May total compares with 31 cases in January, 52 cases in February, 65 cases in March, and 137 cases in April, including delayed and revised reports. (See MMWR, Vol. 13, pages 46, 102, 143, and 177.) Mumps and measles continued to account for a large majority of reported cases, with mumps the chief inciting cause in one-half of the cases reported in May. A comparison of the

cases attributed to mumps, measles, and other causes is presented by month in the table below:

Three cases of rubella post-infectious encephalitis were reported this month bringing to 13 the total number of cases of rubella post-infectious encephalitis reported thus far in 1964. The case reported this month from the State of Washington is the only case reported to date this year in an area other than the New England and Middle Atlantic States regions. The case of post-vaccinal encephalitis reported this month from Oregon is the first reported in 1964.

PERCENT DISTRIBUTION OF POST-INFECTIOUS ENCEPHALITIS DUE TO MUMPS, MEASLES AND OTHER CAUSES IN 1964, BY MONTH*

	MUMPS		MEASLES		OTHER		TOTAL CASES
	CASES	PERCENT TOTAL	CASES	PERCENT TOTAL	CASES	PERCENT TOTAL	
JANUARY	26	84	3	10	2	6	31
FEBRUARY	40	77	6	11	6	11	52
MARCH	39	60	15	23	11	17	65
APRIL	66	48	50	37	21	15	137
MAY	60	50	46	39	13	11	119
CUMULATIVE TOTAL	231	57	120	30	53	13	404

* Includes revised and delayed reports.

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 20, 1964 AND JUNE 22, 1963 (25TH WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
			Primary	Post-Inf.			Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	32	25	26	16	2	9	38	77	1	9	29	68
NEW ENGLAND.....	1	-	-	-	-	-	-	1	-	-	-	1
Maine.....	-	-	-	-	-	-	-	1	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	1	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	3	1	8	2	-	5	5	13	-	5	5	11
New York City.....	-	-	3	-	-	-	1	-	-	-	1	-
New York, Up-State.....	2	1	2	1	-	-	2	5	-	-	2	5
New Jersey.....	1	-	1	-	-	-	2	-	-	-	2	-
Pennsylvania.....	-	-	2	1	-	5	-	8	-	5	-	6
EAST NORTH CENTRAL...	4	4	2	5	-	1	3	17	-	1	3	14
Ohio.....	3	2	1	-	-	-	2	4	-	-	2	3
Indiana.....	-	-	-	-	-	-	-	2	-	-	-	1
Illinois.....	-	-	-	5	-	1	1	7	-	1	1	6
Michigan.....	1	2	1	-	-	-	-	3	-	-	-	3
Wisconsin.....	-	-	-	-	-	-	-	1	-	-	-	1
WEST NORTH CENTRAL...	2	-	1	-	-	-	2	2	-	-	1	2
Minnesota.....	1	-	-	-	-	-	-	2	-	-	-	2
Iowa.....	1	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	-	-	2	-	-	-	1	-
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	1	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	4	5	6	3	2	-	18	9	1	-	13	7
Delaware.....	-	1	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	-	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	-	2	-	-	-	-	-	-	-	-	-
Virginia.....	-	1	-	2	-	-	-	2	-	-	-	1
West Virginia.....	-	-	-	-	-	-	1	1	-	-	1	1
North Carolina.....	-	-	2	-	1	-	8	2	1	-	4	2
South Carolina.....	1	-	-	1	-	-	2	-	-	-	2	-
Georgia.....	-	-	-	-	-	-	1	1	-	-	1	-
Florida.....	3	3	2	-	1	-	5	3	-	-	4	3
EAST SOUTH CENTRAL...	2	1	-	-	-	2	3	6	-	2	1	5
Kentucky.....	-	1	-	-	-	-	-	-	-	-	-	-
Tennessee.....	-	-	-	-	-	1	1	2	-	1	-	2
Alabama.....	2	-	-	-	-	1	2	3	-	1	1	2
Mississippi.....	-	-	-	-	-	-	-	1	-	-	-	1
WEST SOUTH CENTRAL...	-	3	1	1	-	1	2	15	-	1	2	15
Arkansas.....	-	-	-	-	-	1	-	1	-	1	-	1
Louisiana.....	-	-	-	-	-	-	-	12	-	-	-	12
Oklahoma.....	-	-	-	-	-	-	1	-	-	-	1	-
Texas.....	-	3	1	1	-	-	1	2	-	-	1	2
MOUNTAIN.....	2	2	3	-	-	-	4	1	-	-	3	1
Montana.....	-	-	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	-	-	-	-	-	2	-	-	-	2	-
Colorado.....	1	1	1	-	-	-	1	-	-	-	1	-
New Mexico.....	-	-	-	-	-	-	1	-	-	-	-	-
Arizona.....	-	1	2	-	-	-	-	-	-	-	-	-
Utah.....	1	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	14	9	5	5	-	-	1	13	-	-	1	12
Washington.....	5	2	-	1	-	-	-	1	-	-	-	1
Oregon.....	-	-	-	-	-	-	1	1	-	-	1	1
California.....	9	7	5	4	-	-	-	11	-	-	-	10
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	-	-	-	-	-	-	-	4	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 20, 1964 AND JUNE 22, 1963 (25TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
	1964	Cum.	1964	Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative		1964	Cum.
		1964		1964	1964	1964	1964	1964	1964	1963		1964
UNITED STATES...	8	186	2	136	576	265	286	25	20,839	23,015	11	174
NEW ENGLAND.....	-	2	-	42	49	21	25	3	2,144	2,533	-	10
Maine.....	-	-	-	39	12	7	4	1	719	1,179	-	-
New Hampshire.....	-	-	-	-	5	2	3	-	153	175	-	-
Vermont.....	-	-	-	-	6	3	2	1	265	30	-	-
Massachusetts.....	-	2	-	3	14	8	6	-	441	747	-	5
Rhode Island.....	-	-	-	-	1	-	1	-	113	59	-	5
Connecticut.....	-	-	-	-	11	1	9	1	453	343	-	-
MIDDLE ATLANTIC.....	-	3	-	5	132	69	63	-	4,719	4,397	2	30
New York City.....	-	-	-	1	12	3	9	-	686	613	-	12
New York, Up-State.....	-	1	-	-	80	47	33	-	2,117	1,963	2	7
New Jersey.....	-	-	-	2	23	9	14	-	853	666	-	1
Pennsylvania.....	-	2	-	2	17	10	7	-	1,063	1,155	-	10
EAST NORTH CENTRAL...	1	23	-	6	75	31	42	2	3,151	3,719	4	41
Ohio.....	-	1	-	-	23	11	10	2	830	1,052	3	22
Indiana.....	-	1	-	-	11	3	8	-	281	349	-	8
Illinois.....	-	14	-	6	14	4	10	-	533	816	-	5
Michigan.....	1	3	-	-	26	13	13	-	1,278	1,328	1	5
Wisconsin.....	-	4	-	-	1	-	1	-	229	174	-	1
WEST NORTH CENTRAL...	5	86	1	21	30	10	16	4	1,173	1,081	2	16
Minnesota.....	-	3	-	11	3	1	-	2	107	179	1	1
Iowa.....	4	50	-	-	5	3	2	-	171	201	-	3
Missouri.....	1	6	-	-	10	4	6	-	296	413	-	6
North Dakota.....	-	2	1	2	3	-	3	-	45	29	1	2
South Dakota.....	-	12	-	1	-	-	-	-	104	51	-	1
Nebraska.....	-	11	-	-	2	-	-	2	27	78	-	-
Kansas.....	-	2	-	7	7	2	5	-	423	130	-	3
SOUTH ATLANTIC.....	2	17	1	28	70	40	28	2	1,973	2,415	2	35
Delaware.....	-	-	-	-	-	-	-	-	41	34	-	-
Maryland.....	-	-	-	-	20	14	6	-	381	284	-	1
Dist. of Columbia..	-	-	-	-	-	-	-	-	31	67	-	-
Virginia.....	1	7	-	-	8	2	6	-	289	525	1	8
West Virginia.....	-	-	-	-	8	7	-	1	326	382	-	-
North Carolina.....	-	1	-	-	11	8	3	-	366	604	-	11
South Carolina.....	-	-	-	4	1	1	-	-	70	89	-	3
Georgia.....	-	6	-	20	-	-	-	-	42	101	-	1
Florida.....	1	3	1	4	22	8	13	1	427	329	1	11
EAST SOUTH CENTRAL...	-	10	-	5	37	14	22	1	1,414	2,357	1	18
Kentucky.....	-	3	-	-	9	4	5	-	590	686	-	6
Tennessee.....	-	3	-	1	17	5	11	1	495	942	1	8
Alabama.....	-	3	-	2	10	5	5	-	209	349	-	3
Mississippi.....	-	1	-	2	1	-	1	-	120	380	-	1
WEST SOUTH CENTRAL...	-	18	-	16	63	36	26	1	1,544	1,525	-	10
Arkansas.....	-	4	-	-	6	5	1	-	167	170	-	4
Louisiana.....	-	1	-	5	19	9	10	-	343	284	-	2
Oklahoma.....	-	2	-	-	2	1	1	-	84	77	-	3
Texas.....	-	11	-	11	36	21	14	1	950	994	-	1
MOUNTAIN.....	-	14	-	1	23	6	5	12	1,317	1,526	-	3
Montana.....	-	-	-	-	4	1	2	1	118	213	-	-
Idaho.....	-	-	-	-	2	-	-	2	139	241	-	-
Wyoming.....	-	-	-	-	3	3	-	-	45	21	-	-
Colorado.....	-	-	-	-	3	-	-	3	370	322	-	-
New Mexico.....	-	1	-	1	2	1	1	-	187	182	-	-
Arizona.....	-	1	-	-	6	-	-	6	299	362	-	3
Utah.....	-	11	-	-	3	1	2	-	118	175	-	-
Nevada.....	-	1	-	-	-	-	-	-	41	10	-	-
PACIFIC.....	-	13	-	12	97	38	59	-	3,404	3,462	-	11
Washington.....	-	-	-	11	12	5	7	-	378	594	-	1
Oregon.....	-	1	-	-	11	6	5	-	378	456	-	-
California.....	-	12	-	1	69	26	43	-	2,471	2,324	-	10
Alaska.....	-	-	-	-	2	1	1	-	112	63	-	-
Hawaii.....	-	-	-	-	3	-	3	-	65	25	-	-
Puerto Rico	-	-	-	4	9	7	2	-	377	371	-	9

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 20, 1964 AND JUNE 22, 1963 (25TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
		1964	Cumulative		1964	1963	1964	Cum. 1964	1964	Cum. 1964	1964	Cum. 1964
			1964	1963								
UNITED STATES...	11,827	49	1,456	1,412	5,498	4,401	7	116	6	135	90	2,306
NEW ENGLAND.....	676	2	42	87	632	554	-	3	-	-	1	13
Maine.....	134	-	5	15	28	81	-	-	-	-	1	11
New Hampshire.....	1	-	-	4	8	-	-	-	-	-	-	1
Vermont.....	16	-	1	3	2	-	-	-	-	-	-	1
Massachusetts.....	270	1	19	38	100	44	-	3	-	-	-	-
Rhode Island.....	155	1	4	9	82	37	-	-	-	-	-	-
Connecticut.....	100	-	13	18	412	392	-	-	-	-	-	-
MIDDLE ATLANTIC.....	923	13	151	192	460	215	-	8	-	-	8	59
New York City.....	256	-	26	26	13	11	-	-	-	-	-	-
New York, Up-State.....	298	3	53	60	381	132	-	2	-	-	8	56
New Jersey.....	260	7	26	27	35	42	-	4	-	-	-	-
Pennsylvania.....	109	3	46	79	31	30	-	2	-	-	-	3
EAST NORTH CENTRAL...	3,880	9	214	231	651	459	4	17	1	12	13	312
Ohio.....	1,000	1	60	64	76	40	1	3	-	1	-	159
Indiana.....	821	-	33	29	98	64	-	1	-	1	-	17
Illinois.....	192	6	52	42	98	77	-	6	1	8	4	72
Michigan.....	1,377	-	46	69	216	198	3	6	-	1	3	28
Wisconsin.....	490	2	23	27	163	80	-	1	-	1	6	36
WEST NORTH CENTRAL...	1,096	3	90	83	147	114	1	7	1	27	29	742
Minnesota.....	6	-	19	16	11	18	1	1	-	1	14	226
Iowa.....	1,020	-	5	4	33	37	-	2	-	1	10	267
Missouri.....	2	2	46	30	24	5	-	2	1	17	-	116
North Dakota.....	68	1	9	4	60	41	-	-	-	-	3	41
South Dakota.....	-	-	-	4	7	10	-	1	-	-	2	59
Nebraska.....	-	-	5	19	-	1	-	-	-	-	-	20
Kansas.....	NN	-	6	6	12	2	-	1	-	8	-	13
SOUTH ATLANTIC.....	531	7	333	265	586	349	1	40	-	18	12	315
Delaware.....	11	-	4	2	17	1	-	-	-	-	-	-
Maryland.....	36	-	23	41	95	10	1	3	-	-	-	-
Dist. of Columbia..	1	-	9	4	5	-	-	-	-	-	-	-
Virginia.....	157	-	36	63	131	135	-	5	-	4	4	190
West Virginia.....	131	2	24	13	119	84	-	1	-	-	3	22
North Carolina.....	7	-	56	43	22	14	-	12	-	4	-	3
South Carolina.....	43	-	48	13	34	36	-	3	-	-	-	1
Georgia.....	1	-	44	22	-	-	-	1	-	10	2	56
Florida.....	144	5	89	64	163	69	-	15	-	-	3	43
EAST SOUTH CENTRAL...	1,485	1	134	109	772	750	1	15	-	19	6	304
Kentucky.....	258	-	46	24	44	93	-	2	-	1	1	43
Tennessee.....	568	-	45	47	679	633	1	8	-	12	5	247
Alabama.....	645	1	26	21	30	10	-	4	-	3	-	14
Mississippi.....	14	-	17	17	19	14	-	1	-	3	-	-
WEST SOUTH CENTRAL...	905	6	137	141	488	596	-	10	3	40	14	335
Arkansas.....	7	2	15	9	-	1	-	2	3	22	2	82
Louisiana.....	1	4	99	58	1	3	-	3	-	1	-	30
Oklahoma.....	17	-	5	28	12	39	-	-	-	15	4	55
Texas.....	880	-	18	46	475	553	-	5	-	2	8	168
MOUNTAIN.....	453	-	53	49	765	669	-	3	1	19	-	82
Montana.....	87	-	-	3	9	22	-	-	-	10	-	-
Idaho.....	35	-	2	3	32	44	-	-	-	-	-	-
Wyoming.....	2	-	3	4	7	-	-	1	-	4	-	-
Colorado.....	106	-	11	12	280	161	-	-	-	-	-	4
New Mexico.....	7	-	21	3	209	218	-	1	-	-	-	39
Arizona.....	116	-	3	7	87	111	-	-	-	-	-	39
Utah.....	92	-	5	14	141	112	-	1	1	5	-	-
Nevada.....	8	-	8	3	-	1	-	-	-	-	-	-
PACIFIC.....	1,878	8	302	255	997	695	-	13	-	-	7	144
Washington.....	245	1	24	18	138	81	-	1	-	-	-	-
Oregon.....	371	-	18	15	16	10	-	-	-	-	-	2
California.....	1,244	6	246	208	786	537	-	11	-	-	7	142
Alaska.....	2	-	6	7	31	26	-	-	-	-	-	-
Hawaii.....	16	1	8	7	26	41	-	1	-	-	-	-
Puerto Rico	163	-	20	4	35	14	-	32	-	-	2	13

Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)^o

Area	For weeks ending				Area	For weeks ending			
	5/30	6/6	6/13	6/20		5/30	6/6	6/13	6/20
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass.	165	304	296	246	Atlanta, Ga.	127	131	94	116
Bridgeport, Conn.	44	34	50	35	Baltimore, Md.	276	264	234	225
Cambridge, Mass.	33	38	22	32	Charlotte, N.C.	39	42	24	52
Fall River, Mass.	37	37	18	28	Jacksonville, Fla.	74	63	36	66
Hartford, Conn.	46	54	48	61	Miami, Fla.	90	88	73	76
Lowell, Mass.	25	29	37	25	Norfolk, Va.	49	63	70	64
Lynn, Mass.	35	29	23	33	Richmond, Va.	84	82	86	78
New Bedford, Mass.	19	20	30	34	Savannah, Ga.	32	33	42	30
New Haven, Conn.	37	35	45	42	St. Petersburg, Fla.	80	83	68	78
Providence, R.I.	71	47	49	61	Tampa, Fla.	65	63	60	78
Somerville, Mass.	17	8	7	12	Washington, D.C.	186	197	196	213
Springfield, Mass.	42	43	37	33	Wilmington, Del.	38	44	47	49
Waterbury, Conn.	24	22	17	37					
Worcester, Mass.	62	57	52	47	EAST SOUTH CENTRAL:				
MIDDLE ATLANTIC:					Birmingham, Ala.	96	84	80	89
Albany, N.Y.	55	54	41	43	Chattanooga, Tenn.	64	44	44	50
Allentown, Pa.	26	49	44	37	Knoxville, Tenn.	28	26	34	45
Buffalo, N.Y.	109	166	138	132	Louisville, Ky.	101	110	82	152
Camden, N.J.	45	50	45	35	Memphis, Tenn.	114	136	107	116
Elizabeth, N.J.	28	19	48	28	Mobile, Ala.	38	43	51	32
Erie, Pa.	48	41	55	33	Montgomery, Ala.	38	25	22	45
Jersey City, N.J.	59	80	64	89	Nashville, Tenn.	77	106	99	90
Newark, N.J.	101	87	84	88					
New York City, N.Y.	1,718	1,604	1,633	1,654	WEST SOUTH CENTRAL:				
Paterson, N.J.	32	37	46	44	Austin, Tex.	33	32	30	36
Philadelphia, Pa.	449	530	364	258	Baton Rouge, La.	24	34	35	26
Pittsburgh, Pa.	189	180	171	133	Corpus Christi, Tex.	21	21	31	25
Reading, Pa.	41	43	44	60	Dallas, Tex.	132	123	154	144
Rochester, N.Y.	104	107	116	93	El Paso, Tex.	23	37	43	22
Schenectady, N.Y.	19	34	24	16	Fort Worth, Tex.	66	58	54	83
Scranton, Pa.	28	30	54	41	Houston, Tex.	170	150	172	196
Syracuse, N.Y.	58	55	60	64	Little Rock, Ark.	49	59	65	51
Trenton, N.J.	30	34	33	66	New Orleans, La.	200	160	189	194
Utica, N.Y.	34	27	28	43	Oklahoma City, Okla.	70	89	71	72
Yonkers, N.Y.	39	32	29	38	San Antonio, Tex.	89	112	82	110
					Shreveport, La.	50	52	28	71
					Tulsa, Okla.	81	46	75	43
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.	51	63	59	60	Albuquerque, N. Mex.	28	48	23	28
Canton, Ohio.	33	37	36	33	Colorado Springs, Colo.	17	15	24	19
Chicago, Ill.	742	633	744	728	Denver, Colo.	128	102	111	118
Cincinnati, Ohio.	153	174	151	145	Ogden, Utah.	21	19	12	13
Cleveland, Ohio.	200	197	191	224	Phoenix, Ariz.	94	100	89	80
Columbus, Ohio.	93	104	136	118	Pueblo, Colo.	18	11	20	17
Dayton, Ohio.	81	100	69	85	Salt Lake City, Utah.	50	44	33	57
Detroit, Mich.	371	312	376	359	Tucson, Ariz.	43	44	45	46
Evansville, Ind.	39	39	32	39					
Flint, Mich.	54	44	38	49	PACIFIC:				
Fort Wayne, Ind.	42	41	52	45	Berkeley, Calif.	17	11	16	14
Gary, Ind.	24	34	30	34	Fresno, Calif.	52	41	47	43
Grand Rapids, Mich.	34	49	62	45	Glendale, Calif.	37	49	28	30
Indianapolis, Ind.	128	142	168	181	Honolulu, Hawaii.	30	53	26	40*
Madison, Wis.	31	38	52	22	Long Beach, Calif.	58	53	76	55
Milwaukee, Wis.	94	145	115	135	Los Angeles, Calif.	493	428	531	520
Peoria, Ill.	21	30	34	26	Oakland, Calif.	81	70	81	95
Rockford, Ill.	13	29	26	28	Pasadena, Calif.	27	37	29	32
South Bend, Ind.	45	36	40	47	Portland, Oreg.	115	112	100	104
Toledo, Ohio.	111	93	93	88	Sacramento, Calif.	66	58	73	61*
Youngstown, Ohio.	55	70	74	60	San Diego, Calif.	75	76	93	86
					San Francisco, Calif.	187	150	195	211
WEST NORTH CENTRAL:					San Jose, Calif.	30	35	31	37
Des Moines, Iowa.	47	58	54	55	Seattle, Wash.	145	128	151	126
Duluth, Minn.	28	22	24	35	Spokane, Wash.	45	47	57	53
Kansas City, Kans.	31	33	34	35	Tacoma, Wash.	34	36	43	41
Kansas City, Mo.	131	134	126	125					
Lincoln, Nebr.	24	24	35	25	San Juan, P.R.	(---)	(---)	(---)	(---)
Minneapolis, Minn.	115	107	127	110					
Omaha, Nebr.	60	66	90	57					
St. Louis, Mo.	222	215	228	219					
St. Paul, Minn.	79	63	65	61					
Wichita, Kans.	36	53	54	60					

^oCurrent Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages.	11,226
4(B) Pneumonia-Influenza Deaths, all ages.	377
4(C) Total Deaths under 1 Year of Age.	675
4(D) Total Deaths, Persons 65 years and over.	6,074

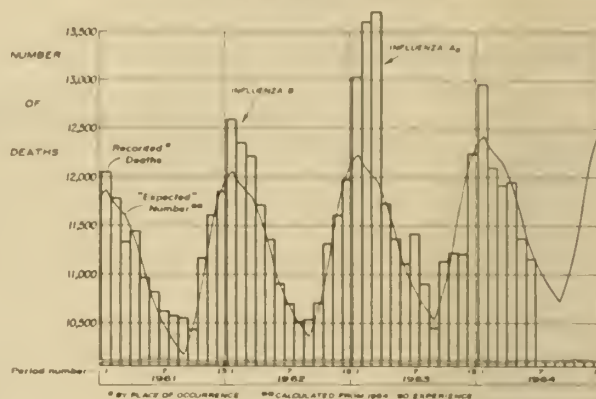
*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending June 20 was 11,159 as compared with an expected weekly average of 11,243.

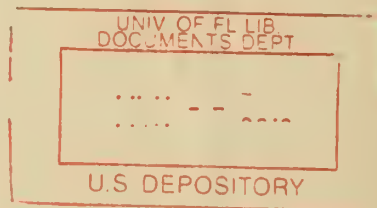
	Week Ending				4 Week	Weekly
	5 30	6 6	6 13	6 20	Total	Average
Observed	11,130	11,064	11,216	11,226	44,636	11,159
Expected	11,352	11,276	11,205	11,138	44,971	11,243
Excess	-222	-212	11	88	-335	-84

TOTAL DEATHS REPORTED IN 108 U.S. CITIES
Average Number per Week by Four Week Periods

(See Table, page 223.)

ERRATUM

The correct number of confirmed cases of rabies in animals during 1963 was 3,932. Due to a typographical transposition, the total appearing on page 202 of MMWR, Vol. 13, appears incorrectly as 3,392. The totals on page 204 are correct.



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 Atlanta, Georgia 30333

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASES. SUCH ACCOUNTS SHOULD BE ADDRESSED TO

LAWRENCE F. ALTMAN, M.D., EDITOR
 MORBIDITY AND MORTALITY WEEKLY REPORT
 COMMUNICABLE DISEASE CENTER
 ATLANTA, GEORGIA 30333

NOTES: THESE PRELIMINARY DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS

SYMBOLS: ... DATA NOT AVAILABLE

○ QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U. S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, ATLANTA, GEORGIA 30333